

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 1614.1077

First Named Inventor or Application Identifier:

Hiroyuki YOSHIKAWA

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231**

1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims & Abstract [Total Pages: 33]
3. ☒ Drawing(s) (35 USC 113) [Total Sheets: 11]
4. ☒ Oath or Declaration [Total Pages: 3]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation by Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) [] Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure Statement (IDS)/PTO-1449[X] Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☐ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
14. ☐ Small Entity Statement(s) [] Statement filed in prior application, status still proper and desired.
15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:[] Continuation [] Divisional [] Continuation-in-part (CIP) of prior application No: / **18. CORRESPONDENCE ADDRESS**

21171

PATENT TRADEMARK OFFICE

NEW APPLICATION FEE TRANSMITTAL

Attorney Docket No. 1614.1077

Application Number

Filing Date

September 22, 2000

AMOUNT ENCLOSED

\$ 1,420.00

First Named Inventor

Hiroyuki YOSHIZAWA

FEE CALCULATION (fees effective 10/01/97)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	28 - 20 =	8	X \$ 18.00 =	\$ 144.00
	INDEPENDENT CLAIMS	10 - 3 =	7	X \$ 78.00 =	546.00
	MULTIPLE DEPENDENT CLAIMS (any number; if applicable)			+ \$240.00 =	0.00
	BASIC FILING FEE				690.00
	Total of above Calculations =				\$ 768.00
	Surcharge for late filing fee, Statement or Power of Attorney (\$130.00)				+ 0.00
	Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28).				- 0.00
	TOTAL FILING FEE =				\$ 1,380.00
	Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))				+ 0.00
	Recordation of Assignment (\$40.00; 37 CFR 1.21(h)(1))				+ 40.00
	TOTAL FEES DUE =				\$ 1,420.00

METHOD OF PAYMENT

- ☒ Check enclosed as payment.
- ☐ Charge "TOTAL FEES DUE" to the Deposit Account No., below.
- ☐ No payment is enclosed and no charges to the Deposit Account are authorized at this time.

GENERAL AUTHORIZATION

- ☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:

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19-3935

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- ☒ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STAAS & HALSEY LLP

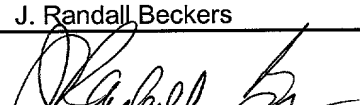
Typed Name	J. Randall Beckers	Reg. No.	30,358
Signature		Date	September 22, 2000

Figure 1 *Mean (SD) age at onset of first psychotic episode (years) by sex and age at referral to the study*

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, Hiroyuki Yoshizawa, a citizen of Japan residing at Kawasaki, Japan have invented certain new and useful improvements in

ELECTRONIC APPARATUS, CONTROL APPARATUS AND STORAGE MEDIUM

of which the following is a specification : -

TITLE OF THE INVENTION

ELECTRONIC APPARATUS, CONTROL APPARATUS
AND STORAGE MEDIUM

5 BACKGROUND OF THE INVENTION

This application claims the benefit of a Japanese Patent Application No.11-304627 filed October 26, 1999, in the Japanese Patent Office, the disclosure of which is hereby incorporated by
10 reference.

1. Field of the Invention

The present invention generally relates to electronic apparatuses, control apparatuses and storage media, and more particularly to an
15 electronic apparatus having an electronic mail function, a control apparatus for controlling such an electronic apparatus, and a computer-readable storage medium which stores a program for causing a computer to have the electronic mail function.

20 In this specification, an electronic apparatus refers to an apparatus having an electronic mail function, and includes computers such as personal computers, word processors, electronic notebooks, and intelligent telephone sets
25 which includes various functions in addition to the normal telephone functions. In addition, the electronic mail function refers to a function including sending and/or receiving electronic mail (e-mail). The electronic mail function may of
30 course include functions of creating and editing electronic mail.

2. Description of the Related Art

Conventional electronic mail systems basically use a text-based signature file, and an
35 electronic mail is transmitted by adding a predetermined signature file or, by writing a signature within a document by character information.

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For this reason, the signature file itself does not have a specific function.

A multi-media electronic mail environment is already provided, and enables images such as
5 photographs and/or audio to be included in the electronic mail, and also enables processing of audio-based or image-based electronic mail. However, the signature file remains in the text form.

Accordingly, if the signature file is
10 copied, a third person can easily impersonate as another person. As a result, it is impossible to judge by a simple means whether or not a sender of the electronic mail is actually the person himself, thereby making the security of the electronic mail
15 poor.

For example, a Japanese Laid-Open Patent Application no.3-106141 proposes a document circulating system which displays on a circulating document an icon for indicating an existence of a
20 comment.

In addition, a Japanese Laid-Open Patent Application No.5-204795 proposes an electronic mail system which has the functions of displaying a destination and a portrait of the sender for
25 confirmation, listing people with the same name or position in a file, and transmitting the electronic mail based on a symbol such as the portrait.

Users of electronic mail are increasing every year due to the rapid growth of the Internet
30 and intranet. Recently, communication functions and electronic mail software are in many cases installed as standard functions in an operating system (OS). Hence, the communication speed is increasing in the internet and local area networks (LANs). As a
35 result, it has recently become possible to exchange data having a large size which was realistically impossible to exchange conventionally due to the

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Variable	Mean	Standard deviation	Minimum	Maximum
Age	34.2	10.5	18	65
Gender	0.45	0.50	0	1
Marital status	0.65	0.48	0	1
Education	12.5	1.2	9	16
Income	1500	500	500	3000
Health status	0.75	0.42	0	1
Employment status	0.85	0.35	0	1
Home ownership	0.95	0.20	0	1
Vehicle ownership	0.60	0.49	0	1
Life satisfaction	4.2	1.5	1	7
Financial satisfaction	3.8	1.2	1	6
Health satisfaction	4.5	1.0	1	6
Relationship satisfaction	4.0	1.3	1	6
Community satisfaction	3.5	1.1	1	6
Overall satisfaction	4.0	1.2	1	6

According to the electronic apparatus of the present invention, it is possible to prevent a

third person from copying the electronic mail and impersonating as another person, and enable confirmation by a simple means that the sender of the electronic mail is the person himself, so that
5 the security of the electronic mail is improved.

The electronic apparatus may further comprise adding means for adding to the signature information a parameter which indicates an importance of the electronic mail. In this case,
10 the parameter may indicate the importance of the electronic mail by a display format of the signature information. In addition, the parameter may include information which indicates a display priority order of the electronic mail. The parameter may include
15 character, image and/or audio information indicating a summary of the electronic mail. Furthermore, the information which indicates the display priority order of the electronic mail may include at least one of a display position and a display timing of
20 the signature information.

According to the electronic apparatus of the present invention, the parameter which enables comprehension of the importance or the summary of the contents of the received electronic mail to a
25 certain extent before actually reading the electronic mail, is added to the signature information. As a result, it is possible to know the importance and the summary of the contents of the received electronic mail without actually
30 reading the received electronic mail, and the so-called junk mail can be confirmed without actually reading the junk mail.

The symbol may include information used for linking to the sender.

35 A further object of the present invention is to provide an electronic apparatus comprising receiving means for receiving an electronic mail in

5 the image information of the electronic mail.

related to at least a face of the sender.

10 third person from improperly copying the image of
the electronic mail and impersonating as another
person, and to confirm by a simple means that the
sender of the electronic mail is the person himself.

15 include a parameter which indicates an importance of
the electronic mail, and the electronic apparatus
may further comprise recognizing means for
recognizing the importance based on the parameter.

20 information which indicates an importance of the
signature information, and the electronic apparatus
may further comprise display control means for
displaying, based on the information which indicates
the importance of the signature information, the
25 signature information on the display means with a
format which enables recognition of the importance.
In this case, the information which indicates the
importance of the signature information may be
included within the signature information.

30 The receiving means may receive
information which indicates a display priority order
of the signature information, and the electronic
apparatus may further comprise means for determining
a display position of the signature information
35 based on the information which indicates the display
priority order of the signature information.

The receiving means may receive

information which indicates a display priority order of the signature information, and the electronic apparatus may further comprise means for determining a display timing of the signature information based on the information which indicates the display priority order of the signature information. In this case, the information which indicates the display priority order of the signature information may be included within the signature information.

10 The signature information may include character, image and/or audio information indicating a summary of the electronic mail.

 The symbol may include information used for linking to the sender.

15 Another object of the present invention is to provide an electronic apparatus comprising receiving means for receiving an electronic mail including at least signature information and information which indicates an importance thereof, 20 display means for displaying the electronic mail, and display control means for displaying the signature information on the display means with a format which enables recognition of the importance, based on the information which indicates the 25 importance.

 Still another object of the present invention is to provide an electronic apparatus comprising transmitting means for transmitting an electronic mail by adding to signature information of the electronic mail a parameter which indicates an importance of the electronic mail.

 According to the electronic apparatus of the present invention, the parameter which enables comprehension of the importance or the summary of 35 the contents of the received electronic mail to a certain extent before actually reading the electronic mail, is added to the signature

information. As a result, it is possible to know the importance and the summary of the contents of the received electronic mail without actually reading the received electronic mail, and the so-called junk mail can be confirmed without actually reading the junk mail.

A further object of the present invention is to provide a control apparatus for an electronic apparatus having transmitting means, comprising control means for controlling the transmitting means to transmit an electronic mail in which a symbol including image information which enables a sender to be specified therefrom is included within signature information of the electronic mail.

Another object of the present invention is to provide a control apparatus for an electronic apparatus having receiving means for receiving an electronic mail and display means for displaying the received electronic mail, comprising control means for controlling the receiving means to receive an electronic mail in which a symbol including image information which enables a sender to be specified therefrom is included within signature information of the electronic mail, and for controlling the display means to display the image information of the electronic mail.

Still another object of the present invention is to provide a control apparatus for an electronic apparatus having receiving means for receiving an electronic mail including at least signature information and information which indicates an importance thereof and display means for displaying the received electronic mail, comprising display control means for controlling the display means to display the signature information with a format which enables recognition of the importance, based on the information which indicates

the importance.

A further object of the present invention is to provide a computer-readable storage medium which stores a program for causing a computer to
5 have an electronic mail function, comprising transmitting means for causing the computer to transmit an electronic mail in which a symbol including image information which enables a sender to be specified therefrom is included within
10 signature information of the electronic mail.

Another object of the present invention is to provide a computer-readable storage medium which stores a program for causing a computer to have an electronic mail function, comprising receiving means
15 for causing the computer to receive an electronic mail in which a symbol including image information which enables a sender to be specified therefrom is included within signature information of the electronic mail, and display means for causing the
20 computer to display the image information of the electronic mail.

Still another object of the present invention is to provide a computer-readable storage medium as which stores a program for causing a
25 computer to have an electronic mail function, comprising receiving means for causing the computer to receive an electronic mail including at least signature information and information which indicates an importance thereof, display means for
30 causing the computer to display the electronic mail, and display control means for causing the computer to display the signature information by the display means with a format which enables recognition of the importance, based on the information which indicates
35 the importance.

According to the storage medium of the present invention, it is possible to prevent a third

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5 Therefore, according to the present invention, it is possible to prevent a third person from improperly copying the image of the electronic mail and impersonating as another person, and to confirm by a simple means that the sender of the
0 electronic mail is the person himself, thereby improving the security of the electronic mail. In addition, the parameter which enables comprehension of the importance or the summary of the contents of the received electronic mail to a certain extent
5 before actually reading the electronic mail, is added to the signature information. As a result, it is possible to know the importance and the summary of the contents of the received electronic mail without actually reading the received electronic
10 mail, and the so-called junk mail can be confirmed without actually reading the junk mail.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 2 is a system block diagram for explaining the construction of an important part within a main body of a computer system;

FIG. 4 is a diagram showing an embodiment

FIG. 5 is a flow chart for explaining the operation of the CPU of the computer system which forms a receiving end apparatus;

FIG. 7 is a diagram showing a state where the multi-media signature file is displayed on a display before a mail text of an electronic mail;

FIG. 9 is a diagram showing a state where the multi-media signature file is displayed on the display after the mail text of the electronic mail;

FIG. 11 is a flow chart for explaining the operation of the CPU of the computer system which forms a receiving end apparatus.

A description will be given of embodiments of the present invention, by referring to the drawings.

A computer system 100 shown in FIG. 1 generally includes a main body 101 which includes a

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bus 200. In this embodiment, the display 102, the keyboard 103, the mouse 104, the image pickup unit 120 and the like are connected to the CPU 201 via the bus 200 as shown in FIG. 2, but these elements
5 may of course be connected directly to the CPU 201. In addition, the display 102 and the image pickup unit 120 may be connected to the CPU 201 via a known graphic interface (not shown) which processes input and output image data.

10 The construction of the computer system 100 is of course not limited to that shown in FIGS. 1 and 2, and various other known constructions may be used instead.

First, a description will be given of the
15 operation when the computer system 100 forms a transmitting end apparatus. FIG. 3 is a flow chart for explaining the operation of the CPU 201 of the computer system 100 which forms the transmitting end apparatus. The process shown in FIG. 3 corresponds
20 to a program which is stored in a first embodiment of the computer-readable storage medium according to the present invention.

In FIG. 3, a step 31 decides whether or not a mailer which generates a multi-media signature
25 file at the transmitting end is started. When the decision result in the step 31 becomes YES, a step 32 creates a mail text or body of an electronic mail by a procedure similar to a known procedure used to create a text-based electronic mail. A signature
30 file generally refers to a file which includes personal information of the user. On the other hand, a multi-media signature file refers to a signature file which adapts to multi-media. In this
embodiment, the mailer creates an electronic mail in
35 a HTML language which can simultaneously input audio and image in a multi-media format such as the HTML format or, in a language which conforms to the HTML

5 At a stage where the electronic mail is to
be transmitted, a step 33 starts a signature
creating wizard for creating a multi-media signature
file. A step 34 inputs personal information which
is input by the user (sender) from the keyboard 103
10 or the like. The personal information includes
information such as a name, position, URL of home
page, telephone number, mail address, and Nifty ID,
for example, which are necessary for the multi-media
signature file.

A step 36 carries out an image processing
20 such as framing, with respect to the input image.
The frame which is added to the input image and an
accessory frame which is added to the multi-media
signature file may be selected and determined
depending on the user's preference. In addition, a
25 step 37 inputs a parameter which is input from the
keyboard 103 or the like by the user (sender) and
indicates an importance of the electronic mail.

The parameter includes at least one of information which indicates a display priority order of the electronic mail, and character, image and/or audio information which indicates a summary of the electronic mail. In addition, the information which indicates the display priority order of the electronic mail includes at least one of a display position and a display timing of the multi-media signature file. In other words, it is possible to indicate a display priority position of the

electronic mail by at least one of the display position and the display timing of the multi-media signature file. Accordingly, the importance of the electronic mail can be indicated by a display format of the signature file, and the electronic mail can be displayed with a format which enables recognition of the importance of the electronic mail by changing the display position or the display timing of the signature file.

10 In the above described manner, preparations are made to transmit the electronic mail in which a symbol including image information which enables the sender to be specified therefrom is included within the signature file of the electronic mail. In this embodiment, the symbol includes image information and personal information of the sender, which enable the sender to be specified, and the parameter is added to the multi-media signature file. Thus, information used for linking to the sender is included in the symbol.

20 The information (parameter) which indicates the display priority order may be included in a header of the electronic mail or the mail text, instead of including the information (parameter) within the multi-media signature file. Furthermore, a parameter which indicates the importance of the electronic mail may replace the information or parameter which indicates the display priority order.

30 FIG. 4 is a diagram showing an embodiment of the multi-media signature file which is displayed. In FIG. 4, displayed information includes an image (input image) 1 of the user (sender), a frame 2 added to the input image 2, an accessory frame 3 added to the multi-media signature file, and personal information 4.

A step 38 decides whether or not an error between the image input in the step 35 and an image

which is prestored in the memory part 202 or the like and includes the face of the user (sender) is within a predetermined range. The process returns to the step 35 if the decision result in the step 38 is NO. On the other hand, if the decision result in the step 38 is YES, a step 39 decides whether or not a mailer on a receiving end is adapted to the multi-media signature file. If the decision result in the step 39 is NO, a step 40 includes the multi-media signature file within the electronic mail, and the process advances to a step 41. On the other hand, the process advances to the step 41 if the decision result in the step 39 is YES.

The decision in the step 39 is made based on a selection which is made by the user from the mouse 104, for example. That is, the decision in the step 39 is made based on the selection which determines whether or not the electronic mail is to be transmitted for a mailer which is adapted to the multi-media signature file.

The step 41 enables transmission of the electronic mail. In addition, a step 42 transmits the created electronic mail to a communication network such as the Internet via a known mail server (not shown), and the process ends.

Next, a description will be given of the operation when the computer system 100 forms a receiving end apparatus having a mailer which is adapted to the multi-media signature file. FIG. 5 is a flow chart for explaining the operation of the CPU 201 of the computer system 100 which forms the receiving end apparatus. The process shown in FIG. 5 corresponds to a program which is stored in a second embodiment of the computer-readable storage medium according to the present invention.

In FIG. 5, a step 11 decides whether or not a mailer at the receiving end, which is adapted

to the multi-media signature file, is started. When the decision result in the step 11 becomes YES, a step 12 receives an electronic mail from a transmitting end apparatus via a communication network such as the Internet and a known mail server (not shown). In this embodiment, it is assumed for the sake of convenience that the received electronic mail has been created by the process described above in conjunction with FIG. 3. Further, it is assumed that information p which indicates the display priority order of the electronic mail is added to the multi-media signature file as the parameter indicating the importance of the electronic mail or, the parameter is included in the mail text or header of the electronic mail.

A step 13 decides whether or not the received electronic mail includes a multi-media signature file. If the decision result in the step 13 is NO, the received electronic mail is a normal or ordinary electronic mail such as that shown in FIG. 6, and thus, a step 14 displays the normal electronic mail on the display 102 by a known means, and the process ends. The normal electronic mail shown in FIG. 6 is not adapted to the multi-media signature file, and is basically text-based.

On the other hand, if the decision result in the step 13 is YES, a step 15 displays the received electronic mail on the display 102 by including the importance of the electronic mail in a list of the electronic mail. In this embodiment, the received electronic mail is displayed by including the display priority order information p in the electronic mail. In this case, the list of the electronic mail is basically the same as a known list, except that an item corresponding to the display priority order information p is added.

A step 16 displays the multi-media

signature file on the display 102, based on the display priority order information p. If it is assumed for the sake of convenience that there are three kinds of display priority order information p and that the lower the value of the display priority order information p the higher the display priority order, the process advances to a step 17 if the display priority order information p is p = 0, to a step 18 if p = 2, and to a step 19 if P = 3.

10 If the display priority order information p is p = 1 which indicates the highest importance of the electronic mail, the step 17 displays the multimedia signature file before or in front of the mail text of the electronic mail displayed in a step 20.

15 FIG. 7 is a diagram showing a state where a multimedia signature file 500 is displayed on the display 102 before the mail text of the electronic mail. When the importance of the received electronic mail is high as in this particular case, the multi-media signature file 500 is displayed before the mail text

20 of the electronic mail, so that the user (recipient) can first confirm the sender of the received electronic mail. In this case, the information of the sender specified by the multi-media signature file 500 has an extremely high reliability, because measures are taken by the process shown in FIG. 3 so that a third person cannot impersonate the sender. Accordingly, the recipient can confirm by a simple means that the sender is the person himself. In

30 addition, since the multi-media signature file 500 is displayed first, that is, before the mail text of the electronic mail, the recipient can comprehend the importance and summary of the contents of the received electronic mail to a certain extent before

35 actually reading the received electronic mail, thereby making it possible to distinguish important electronic mail from junk mail and the like.

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If the display priority order information p is p = 2 which indicates the medium importance of the electronic mail, the step 18 displays the multi-media signature file within the mail text of the electronic mail when displaying the electronic mail in the step 20. FIG. 8 is a diagram showing a state where the multi-media signature file 500 is displayed within a mail text 501 on the display 102. When the importance of the received electronic mail is medium as in this particular case, the multi-media signature file 500 is displayed within the mail text 501 of the electronic mail, so that the user (recipient) can receive the electronic mail similarly to the normal or ordinary electronic mail. Accordingly, since the multi-media signature file 500 is displayed within the mail text 501 of the electronic mail, the recipient can comprehend the importance and summary of the contents of the received electronic mail to a certain extent before actually reading the received electronic mail. In this embodiment, the multi-media signature file 500 which is displayed within the mail text 501 is made up of personal information, similarly as in the case of receiving the normal electronic mail, however, it is of course possible to also display image information and the like of the sender as in the case shown in FIG. 7.

If the display priority order information p is p = 3 which indicates the lowest importance of the electronic mail, the step 19 adjusts a processing sequence so that the multi-media signature file is displayed after or in rear of the mail text of the electronic mail displayed in the step 20. FIG. 9 is a diagram showing a state where the multi-media signature file 500 is displayed after the mail text 501 on the display 102. When the importance of the received electronic mail is

lowest as in this particular case, the multi-media signature file 500 is displayed after the mail text 501 of the electronic mail, so that the user (recipient) can simply judge whether or not to actually read the received electronic mail. In other words, because the multi-media signature file 500 is displayed after the mail text 501, the recipient can comprehend the importance and summary of the contents of the received electronic mail to a certain extent before actually reading the received electronic mail.

FIG. 10 is a flow chart showing the process of particularly the steps 11 through 13 shown in FIG. 5 in more detail. In FIG. 10, steps 61 through 65 correspond to the steps 11 through 13 shown in FIG. 5, a step 66 corresponds to the step 14 shown in FIG. 5, and a step 67 corresponds to the steps 15 through 20 shown in FIG. 5. In the process shown in FIG. 10, the display priority order information p is used as a flag, and a decision to determine whether the received electronic mail includes the multi-media signature file is made based on this flag.

In FIG. 10, the step 61 decides whether or not the mailer at the receiving end is started. When the decision result in the step 61 becomes YES, the step 62 receives the electronic mail from the transmitting end apparatus via the communication network such as the Internet and a known receiving end mail server (not shown). The step 63 confirms the received electronic mail which is received by the receiving end mail server. The step 64 inputs a header file of the received electronic mail, and the step 65 decides whether or not the input header file includes the flag which indicates the existence of the multi-media signature file. More particularly, this embodiment uses the display priority order

information p as the flag.

Accordingly, when the received electronic mail is a normal or ordinary electronic mail having no flag, the process advances to the step 66 which carries out a mail process similar to that with respect to the normal electronic mail, and the process ends. On the other hand, if the received electronic mail includes the multi-media signature file and the flag exists, the process advances to the step 67 which carries out the mail process adapted to the multi-media signature file, and the process ends.

As described above, the parameter which indicates the importance of the electronic mail includes at least one of the information indicating the display priority order of the electronic mail, and the character, image and/or audio information indicating the summary of the electronic mail. In addition, the information indicating the display priority order of the electronic mail includes at least one of a display position and a display timing of the multi-media signature file. In the embodiments described above, the information indicating the display priority order of the electronic mail is used as the parameter, however, the user (recipient) can similarly comprehend the importance of the received electronic mail when the character, image and/or audio information indicating the summary of the electronic mail is used as the parameter. For example, the character information indicating the summary of the electronic mail may be related to a summary or the like of the mail text of the electronic mail. The image information indicating the summary of the electronic mail may be related to the kind or nature (urgent, normal, circulating, and the like) of the mail text of the electronic mail. Moreover, the audio information

indicating the summary of the electronic mail may be related to an audio message for informing the kind or nature of the mail text of the electronic mail, for example. In this case, the audio message can be reproduced by a known means such as a plug-in driver module, and output from one or more speakers 121 shown in FIG. 1.

Next, a description will be given of the operation when the computer system 100 forms a receiving end apparatus having a mailer which is not adapted to the multi-media signature file. FIG. 11 is a flow chart for explaining the operation of the CPU 201 of the computer system 100 which forms the receiving end apparatus. The process shown in FIG. 11 corresponds to a program which is stored in a third embodiment of the computer-readable storage medium according to the present invention.

In FIG. 11, a step 51 decides whether or not the mailer at the receiving end, which is not adapted to the multi-media signature file, is started. When the decision result in the step 51 becomes YES, a step 52 receives an electronic mail from a transmitting end apparatus via a communication network such as the Internet and a known mail server (not shown). A step 53 displays a list of the received electronic mail on the display 102. A step 54 includes the multi-media signature file within the mail text of the electronic mail. A step 55 displays the mail text of the electronic mail, including the multi-media signature file, on the display 102, and the process ends.

In a case where the sender knows beforehand that the recipient is not adapted to the multi-media signature file, and the step 40 in the process shown in FIG. 3 includes the multi-media signature file within the mail text of the electronic mail to process the same as a single

electronic mail, the received electronic mail is processed similarly to the normal electronic mail by the process shown in FIG. 11. However, the sender may indicate the importance of the electronic mail by a position in the electronic mail where the multi-media signature file is included. For example, by including the multi-media signature file at a beginning of the mail text of the electronic mail, the recipient may comprehend from the multi-media signature file which is displayed at the beginning position of the mail text of the electronic mail that the importance of the electronic mail is high.

Moreover, in the embodiments, the display position or the display order of the multi-media signature file is changed depending on the parameter which indicates the display priority order or the parameter which indicates the importance. However, the display position or the display order of the signature file which includes no image information or the signature part within the electronic mail may be changed depending on the display priority order or the importance. In the case of such a modification, the technique used to change the display position or the display order of the signature file in the embodiments described above may be employed to change the display position or the display order of the signature consisting solely of characters, so that the display is made with a format which enables recognition of the importance.

In the embodiments described above, the image which includes the face of the sender is a still picture or a motion picture which is picked up. However, the image which includes the face of the sender may be a drawn portrait or an animation. In other words, the image information which enables the sender to be specified in each of the embodiments described above includes still picture, motion

picture, drawn portrait, animation and the like.

Further, the present invention is not
limited to these embodiments, but various variations
and modifications may be made without departing from
5 the scope of the present invention.

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WHAT IS CLAIMED IS

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1. An electronic apparatus comprising:
a transmitter transmitting an electronic mail
in which a symbol including image information which
enables a sender to be specified therefrom is
10 included within signature information of the
electronic mail.

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2. The electronic apparatus as claimed in
claim 1, further comprising:
a generator generating the image information by
inputting an image of the sender.

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3. The electronic apparatus as claimed in
25 claim 2, wherein said transmitter transmits the
electronic mail only when an error between the image
information generated by said generator and
prestored image information is within a
predetermined range.

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4. The electronic apparatus as claimed in
35 claim 1, wherein the image information includes an
image related to at least a face of the sender.

an adding unit adding to the signature
information a parameter which indicates an
5 importance of the electronic mail.

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9. The electronic apparatus as claimed in
35 claim 7, wherein the information which indicates the
display priority order of the electronic mail
includes at least one of a display position and a

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a recognizing unit recognizing the importance

based on the parameter.

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14. The electronic apparatus as claimed in claim 11, wherein said receiver receives information which indicates an importance of the signature information, and further comprising:

10 a display controller displaying, based on the information which indicates the importance of the signature information, the signature information on said display unit with a format which enables recognition of the importance.

15

15. The electronic apparatus as claimed in claim 14, wherein the information which indicates the importance of the signature information is included within the signature information.

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16. The electronic apparatus as claimed in claim 11, wherein said receiver receives information which indicates a display priority order of the signature information, and further comprising:

30 a determining unit determining a display position of the signature information based on the information which indicates the display priority order of the signature information.

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21. An electronic apparatus comprising:
a receiver receiving an electronic mail
including at least signature information and
information which indicates an importance thereof;
5 a display unit displaying the electronic mail;
and
a display controller displaying the signature
information on said display unit with a format which
enables recognition of the importance, based on the
10 information which indicates the importance.

22. An electronic apparatus comprising:
a transmitter transmitting an electronic mail
by adding to signature information of the electronic
mail a parameter which indicates an importance of
the electronic mail.

23. A control apparatus for an electronic
25 apparatus having a transmitter, comprising:
a controller controlling the transmitter to
transmit an electronic mail in which a symbol
including image information which enables a sender
to be specified therefrom is included within
30 signature information of the electronic mail.

24. A control apparatus for an electronic
35 apparatus having a receiver receiving an electronic
mail and a display unit displaying the received

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electronic mail, comprising:

5 a controller controlling said receiver to
receive an electronic mail in which a symbol
including image information which enables a sender
to be specified therefrom is included within
signature information of the electronic mail, and
for controlling said display unit to display the
image information of the electronic mail.

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25. A control apparatus for an electronic
apparatus having a receiver receiving an electronic
15 mail including at least signature information and
information which indicates an importance thereof
and a display unit displaying the received
electronic mail, comprising:

20 a display controller controlling said display
unit to display the signature information with a
format which enables recognition of the importance,
based on the information which indicates the
importance.

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26. A computer-readable storage medium
which stores a program for causing a computer to
30 have an electronic mail function, comprising:

a transmitting section causing the computer to
transmit an electronic mail in which a symbol
including image information which enables a sender
to be specified therefrom is included within
35 signature information of the electronic mail.

5 a receiving section causing the computer to receive an electronic mail in which a symbol including image information which enables a sender to be specified therefrom is included within signature information of the electronic mail; and
10 a display section causing the computer to display the image information of the electronic mail.

a receiving section causing the computer to receive an electronic mail including at least signature information and information which indicates an importance thereof;

a display section causing the computer to display the electronic mail; and

a display control section causing the computer to display the signature information by said display section with a format which enables recognition of the importance, based on the information which indicates the importance.

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ABSTRACT OF THE DISCLOSURE

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FIG. 1

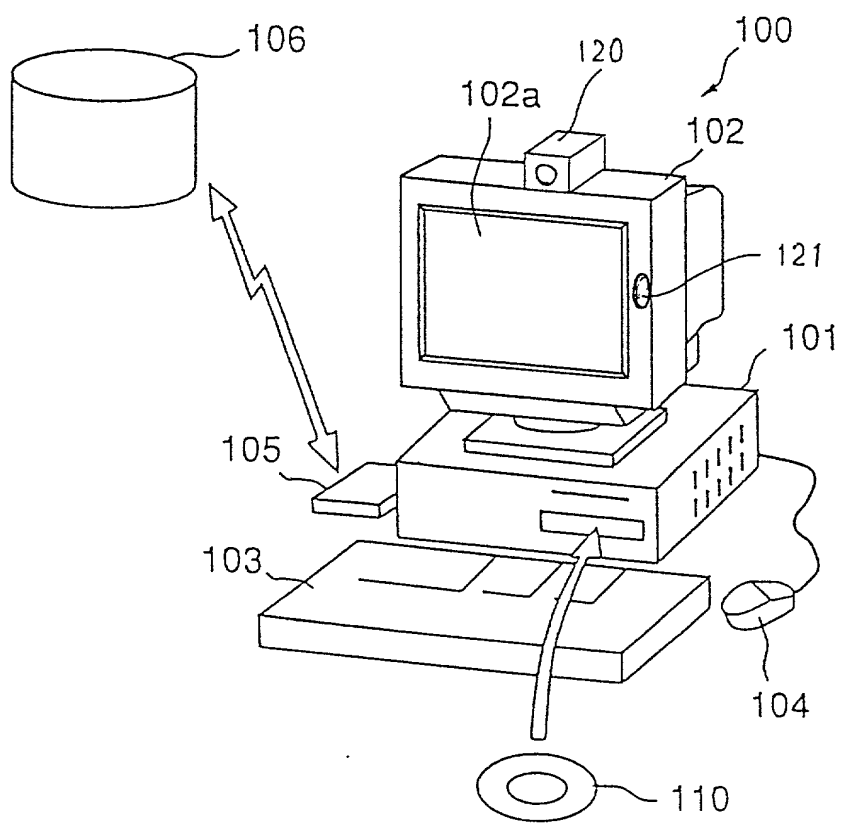


FIG. 2

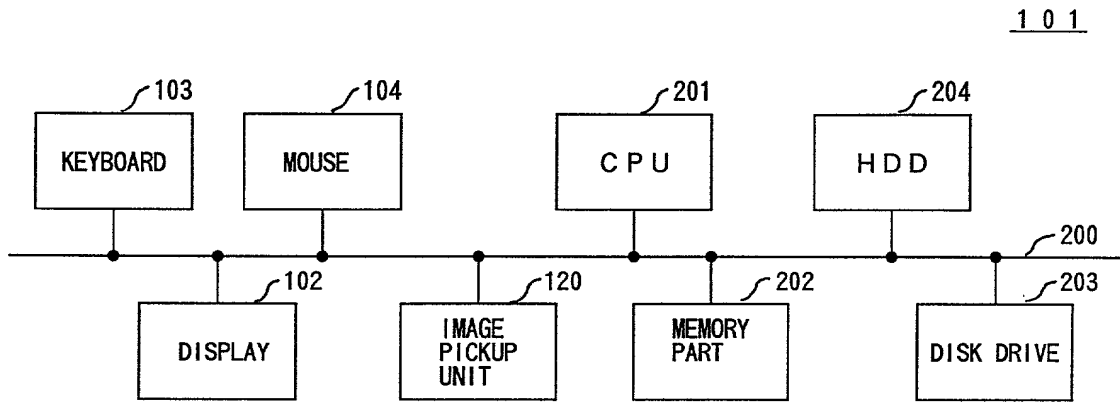


FIG. 3

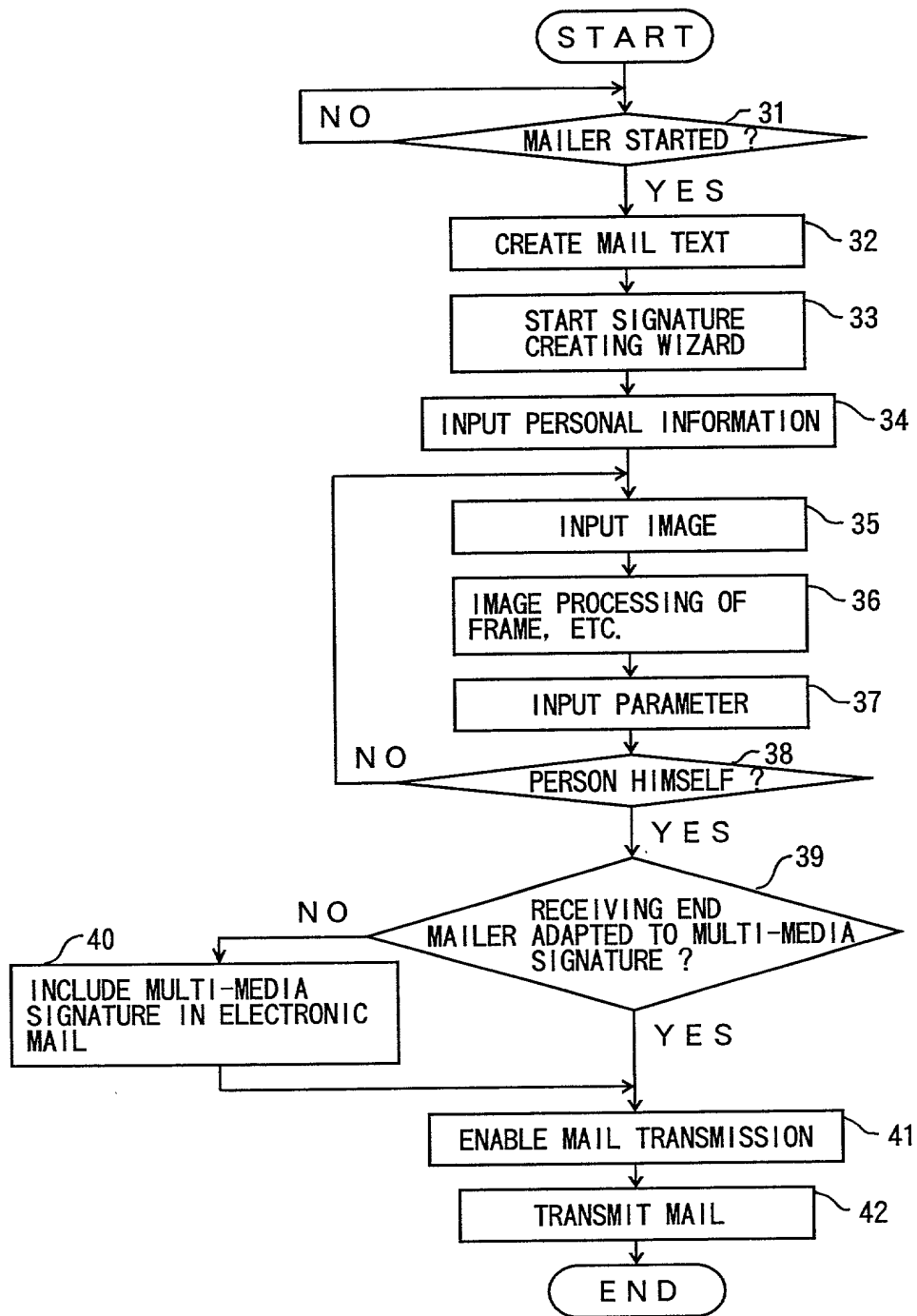
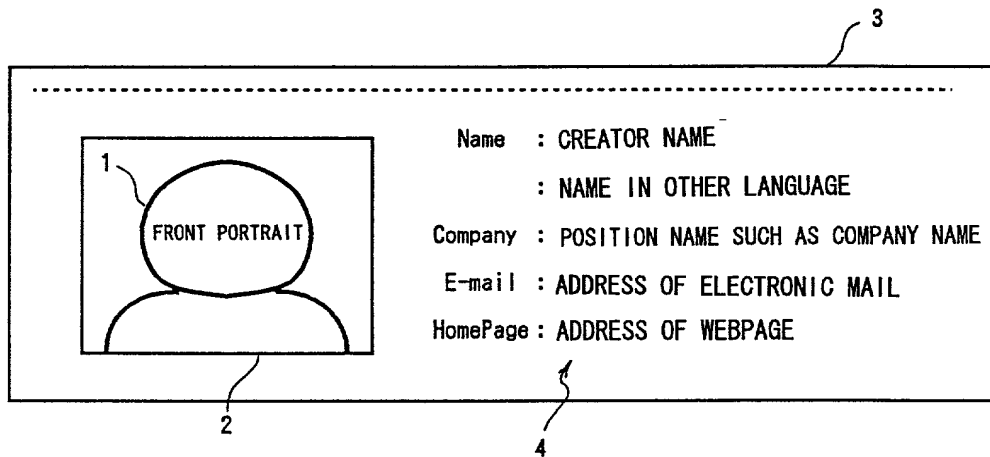


FIG. 4



Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Concentration	0.1	mol/L
pH	7.0	
Wavelength	254	nm
Path length	1.0	cm
Sample volume	10	μL
Injection volume	1	μL
Column	Agilent 1200	
Mobile phase	Water	
Stationary phase	Agilent 1200	
Detector	Agilent 1200	
Software	Agilent 1200	
Hardware	Agilent 1200	
Method	Agilent 1200	
Results	Agilent 1200	
Conclusion	Agilent 1200	

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FIG. 7

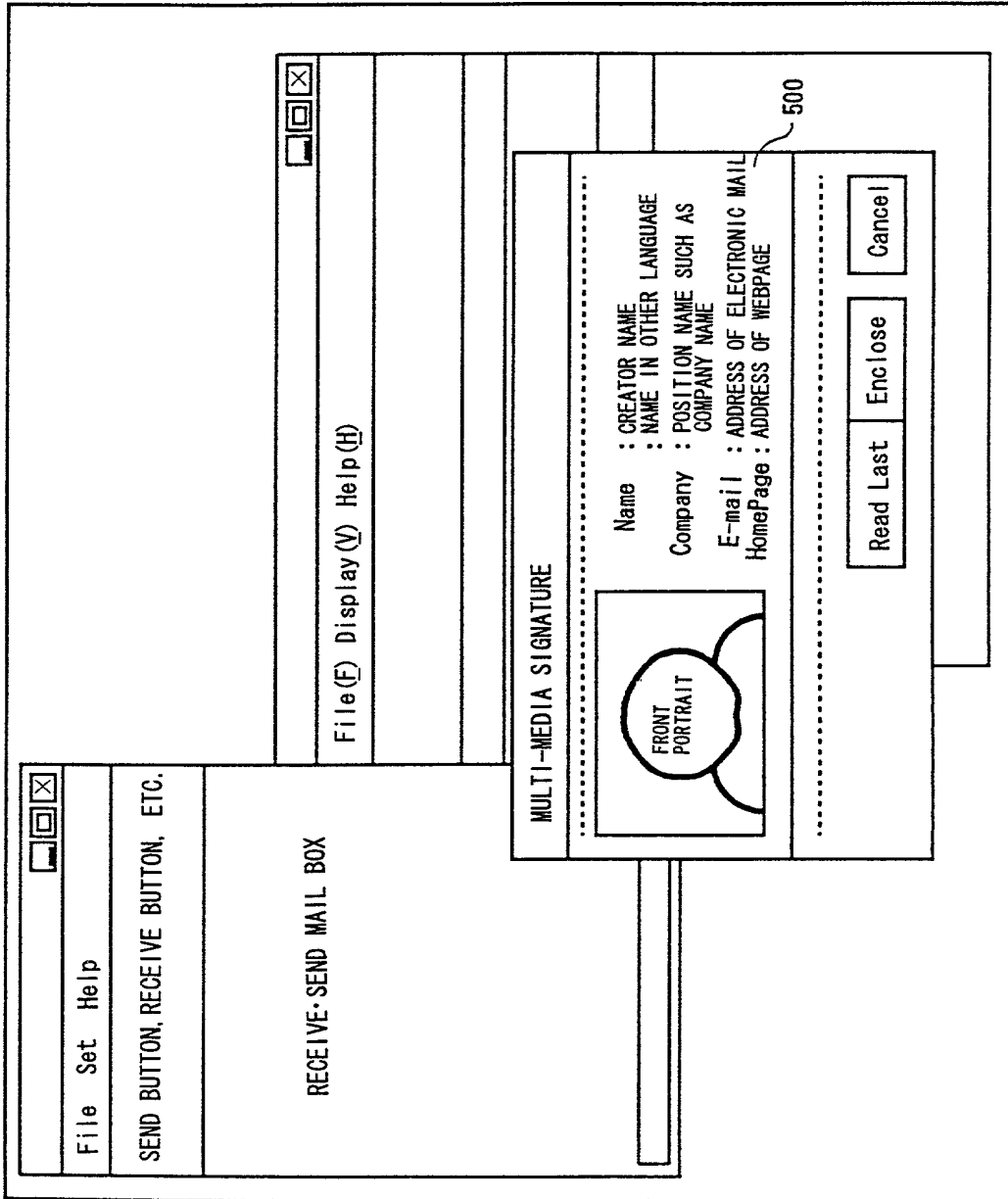


FIG. 8

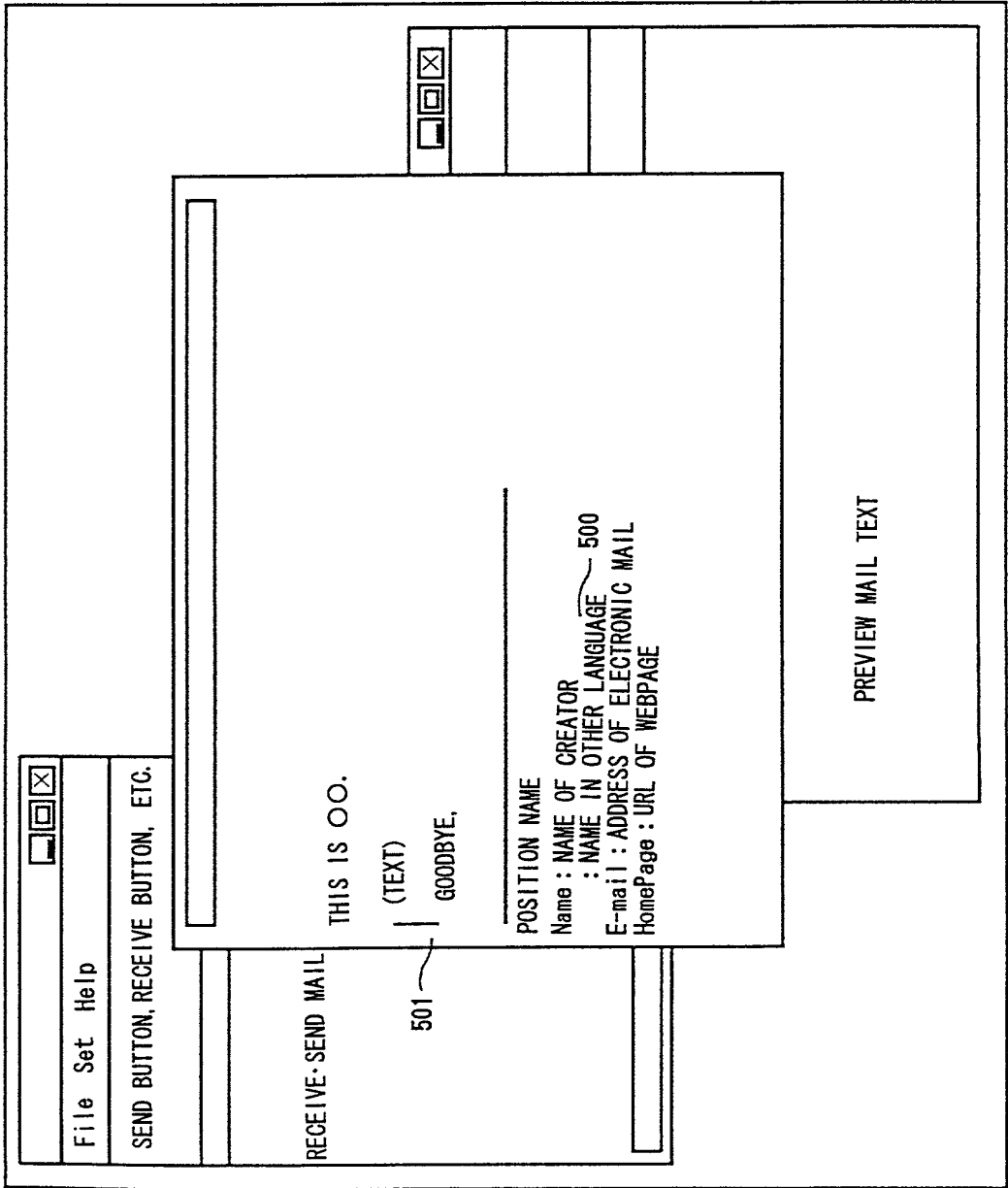


FIG. 9

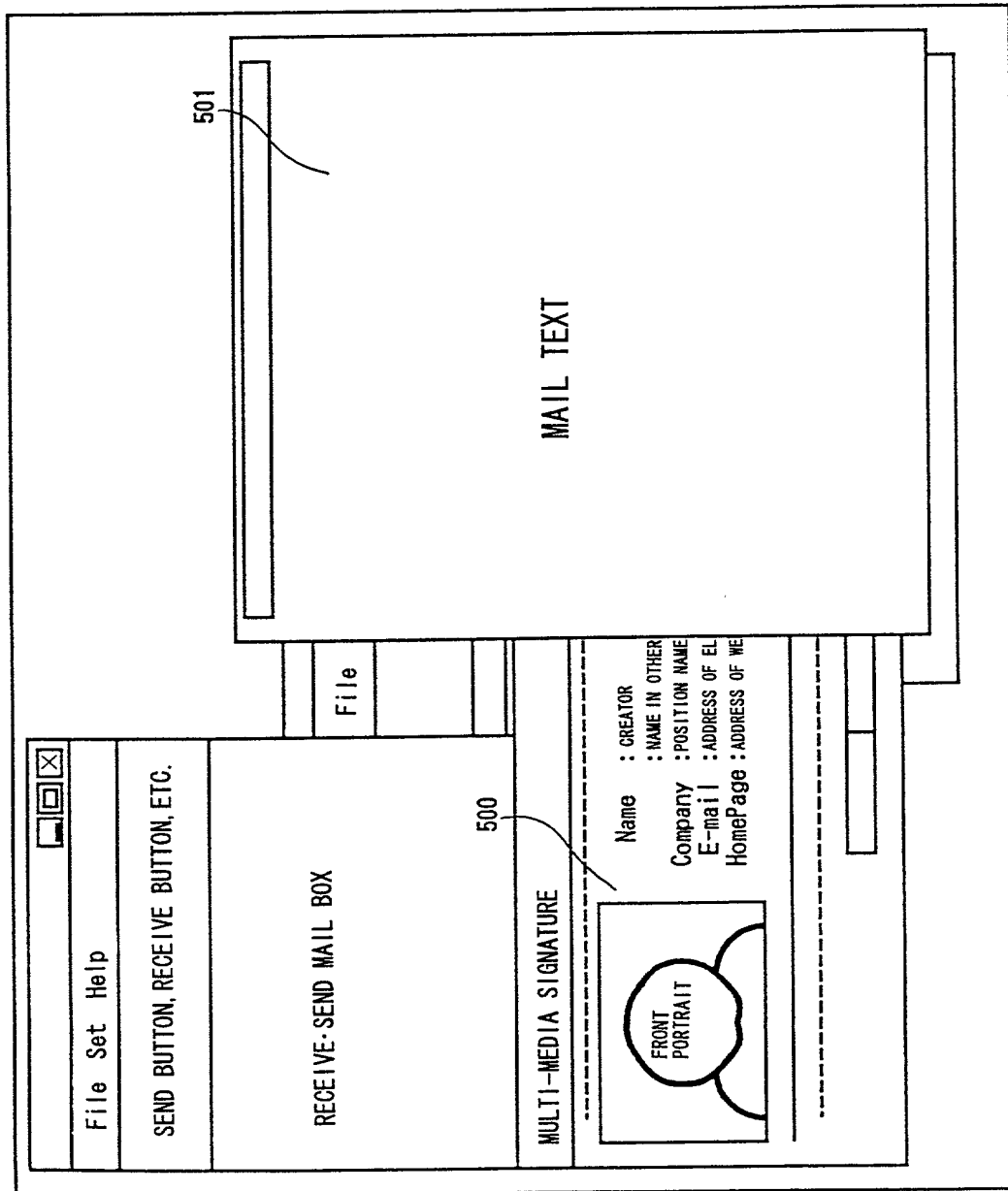


FIG. 10

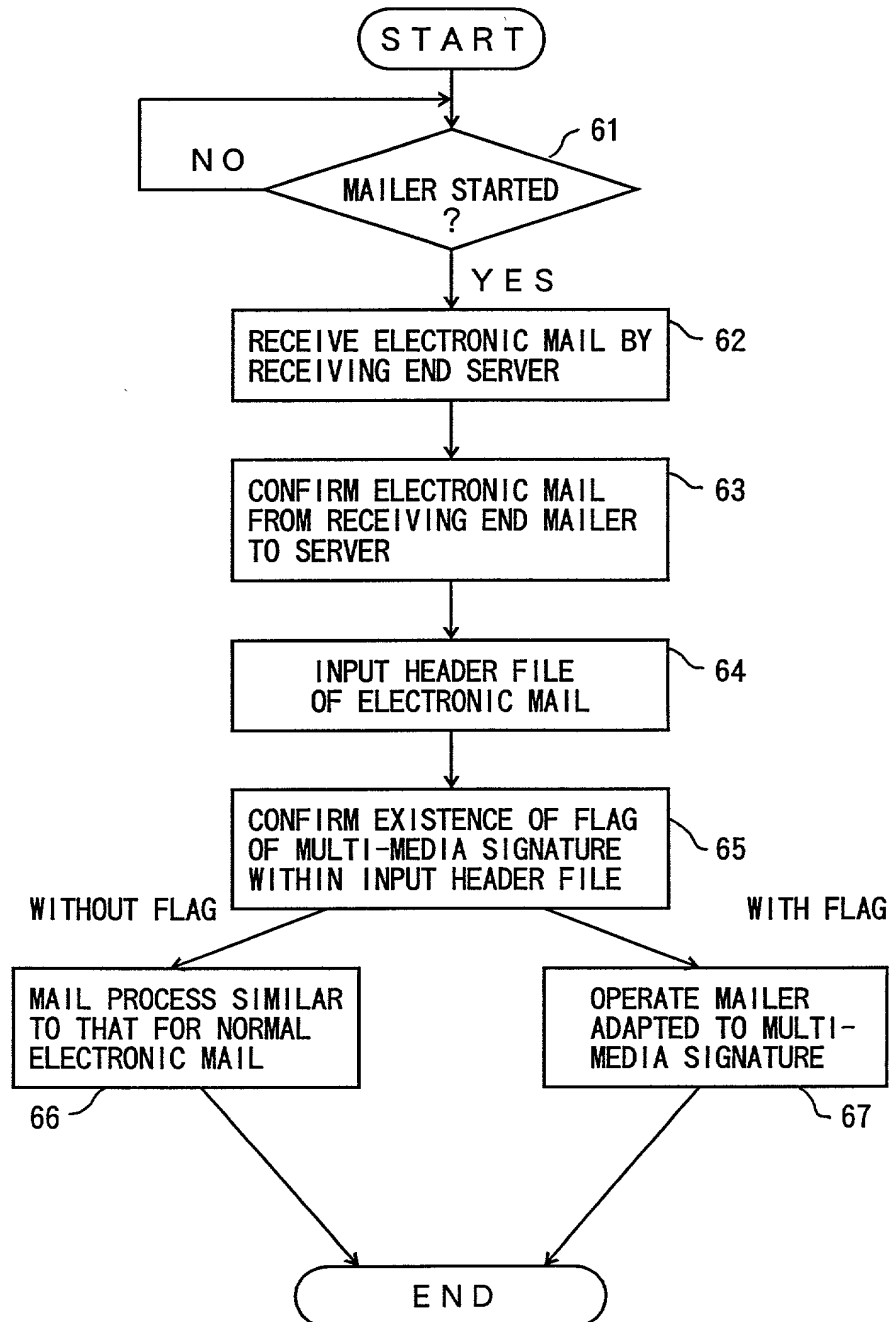
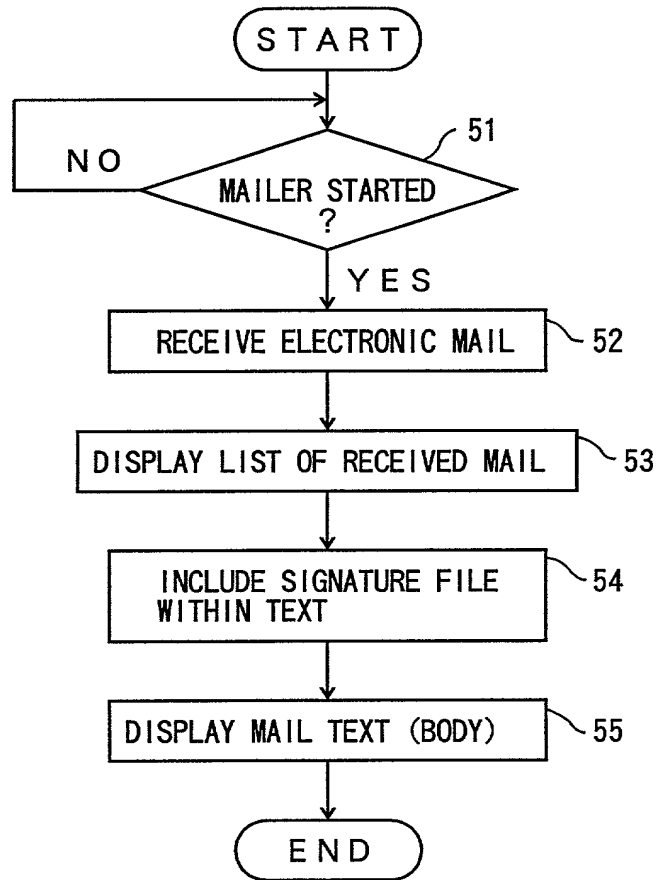


FIG. 11



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Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

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日本語宣言書

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As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ELECTRONIC APPARATUS, CONTROL APPARATUS
AND STORAGE MEDIUM

上記発明の明細書（下記の欄でxがつけられている場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

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(該当する場合) _____ に訂正されました。

☐ was filed on _____
as United States Application Number or
PCT International Application Number
_____ and was amended on
_____ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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Prior Foreign Application(s) (Patent Application)

外国で先行出願

Pat. Appln. No. 11-304627

Japan

(Number)
(番号)(Country)
(国名)(Number)
(番号)(Country)
(国名)

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(Application No.)
(出願番号)(Filing Date)
(出願日)

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(出願日)(Application No.)
(出願番号)(Filing Date)
(出願日)

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Priority Not Claimed

優先権主張なし

26/October/1999

(Day/Month/Year Filed)
(出願年月日)(Day/Month/Year Filed)
(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)
(出願番号)(Filing Date)
(出願日)

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(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

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国籍	Citizenship		
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(Supply similar information and signature for third and subsequent joint inventors.)